

Fig. 1

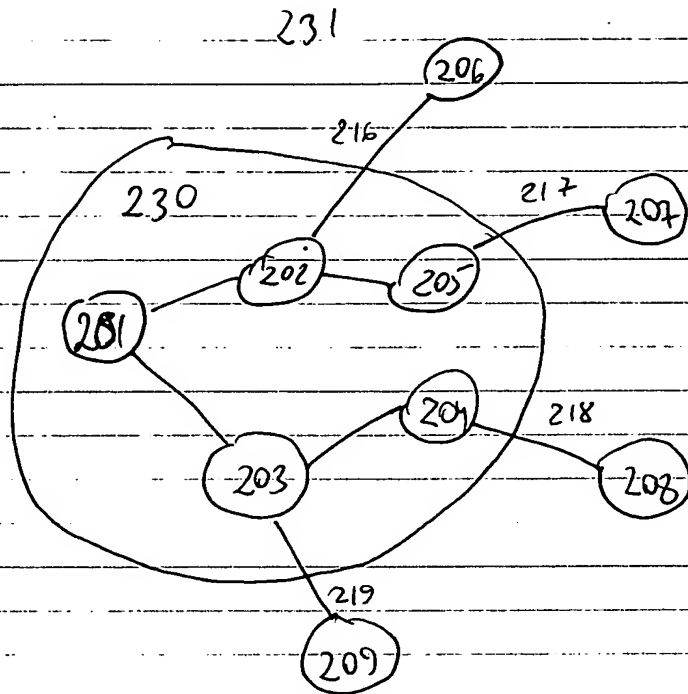


Fig. 2

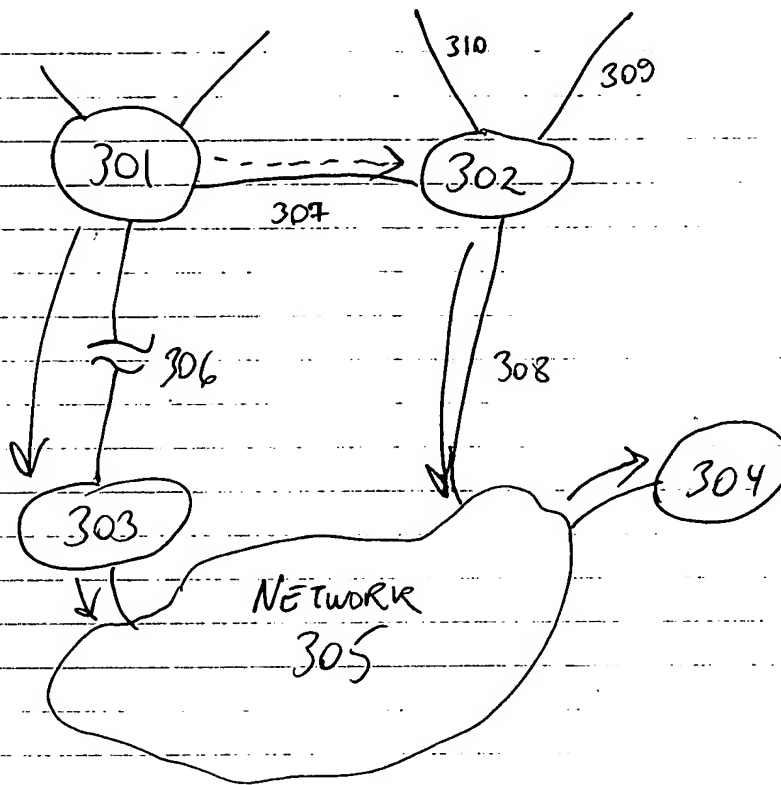


FIG. 3

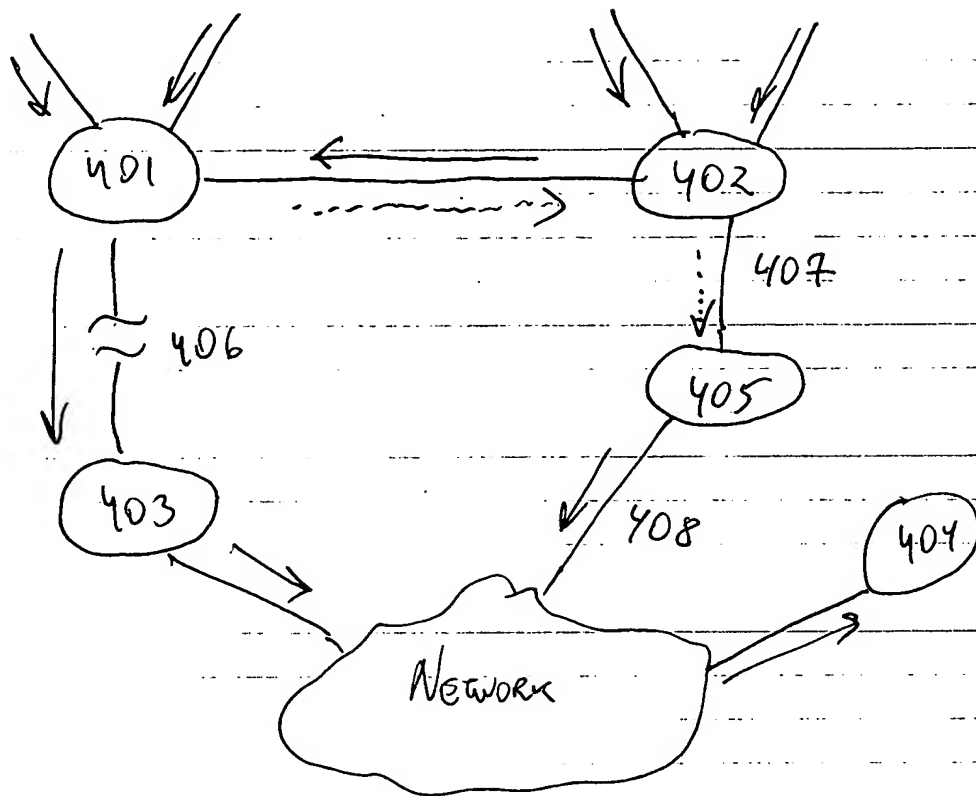


Fig. 4

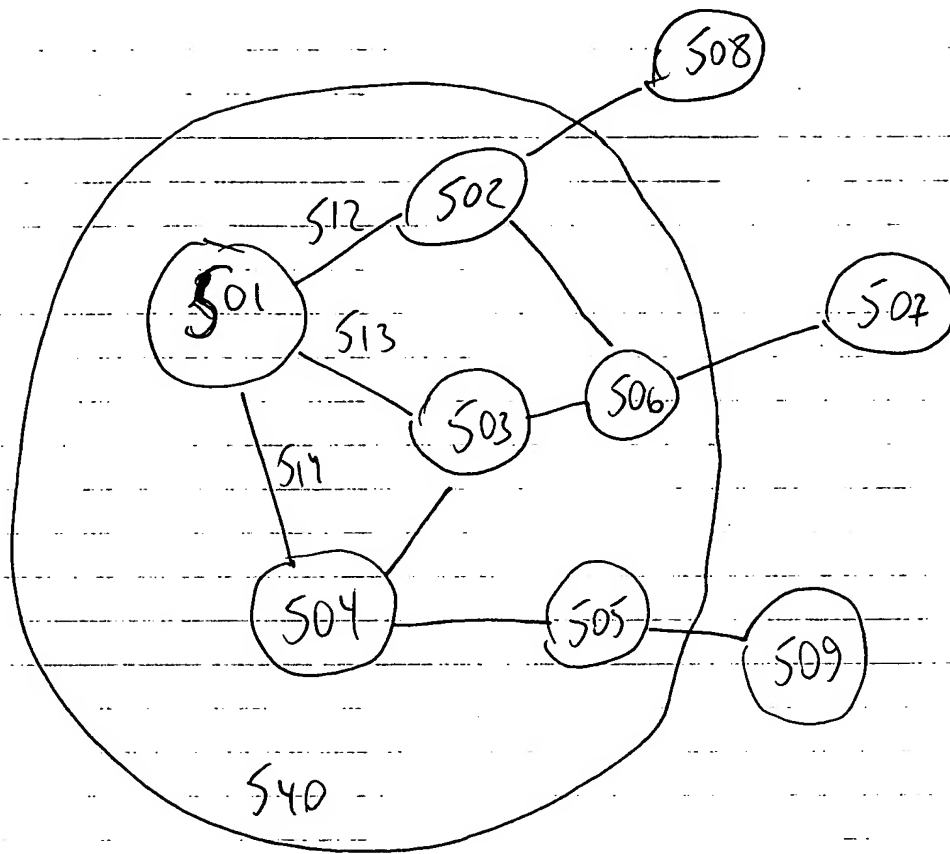


Fig. 5

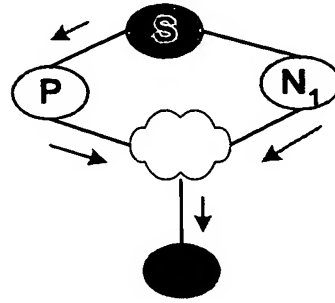


Fig. 6

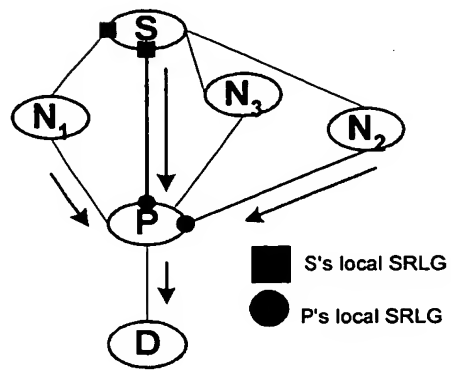


Fig. 7

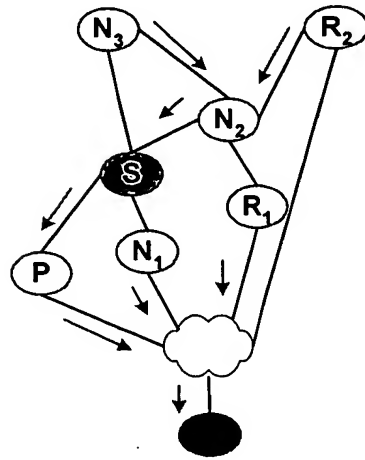


FIG. 8

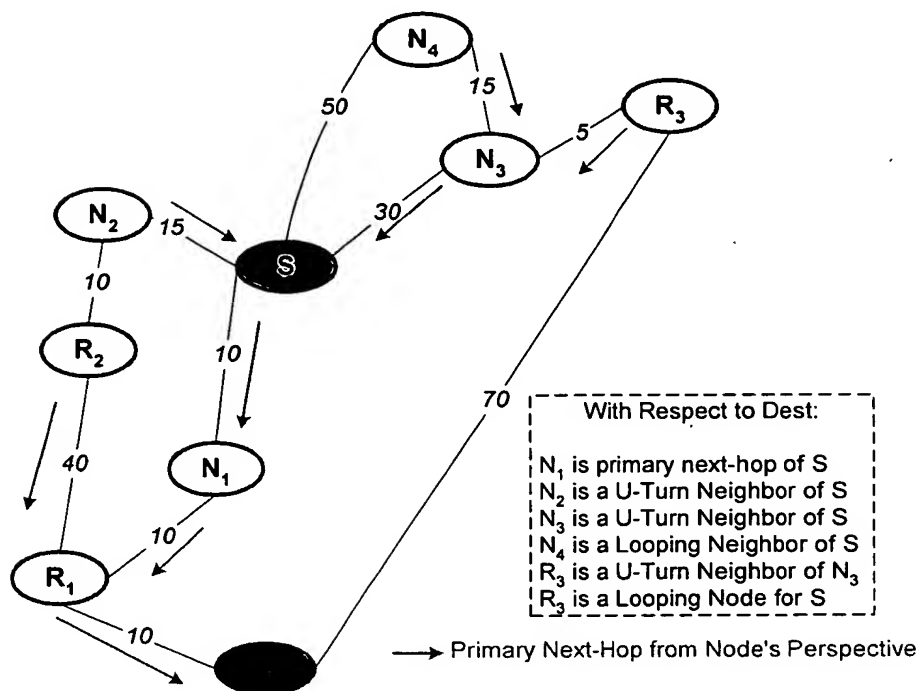


Fig. 9

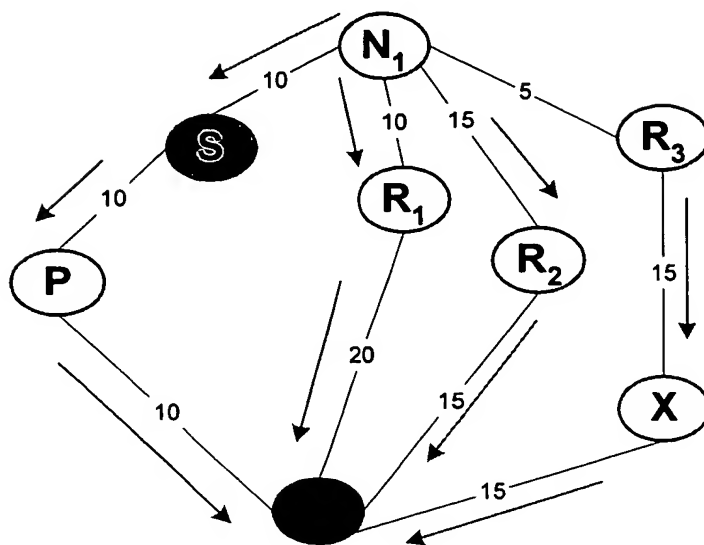


Fig. 10

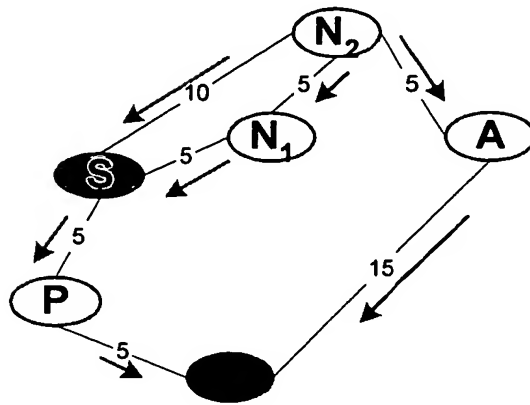


Fig. 11

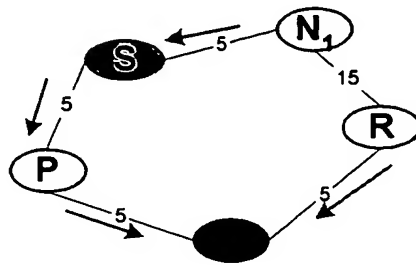


Fig. 12

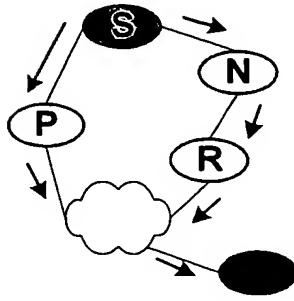


FIG. 13

Docket No.: 2390.2009-001
Title: Rapid Alternate Paths...
Inventors: Alia Karin Atlas, *et al.*

If the IP destination prefix indicates destination D

If packet was received on an interface connected to a primary next-hop neighbor

Forward or discard based on **Error! Reference source not found.**

Else forward the packet to the primary next-hop.

FIG. 14

Interface \ State	U-Turn Capable and no loop-free node-protecting alternate	Not U-Turn capable	U-Turn Capable and Loop-Free Node- Protecting Alternate
Point-to-point	<i>Discard</i>	<i>Forward to Primary</i>	<i>Forward to Alternate</i>
Broadcast	<i>Forward to Primary & send an ICMP redirect, or Discard, based on configuration</i>	<i>Forward to Primary</i>	<i>Forward to Alternate</i>

Fig. 15

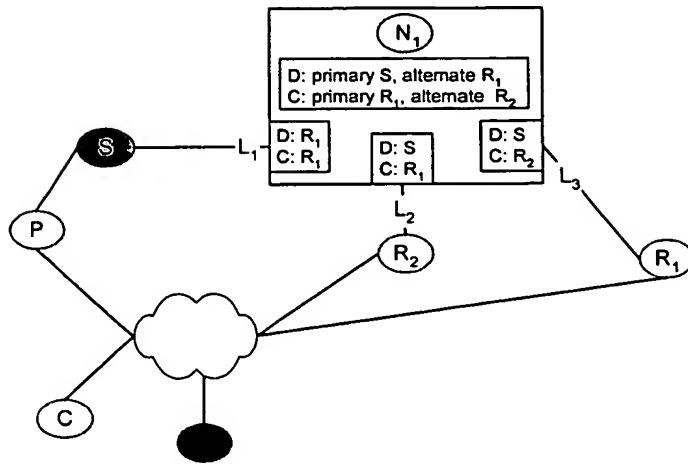


Fig. 16

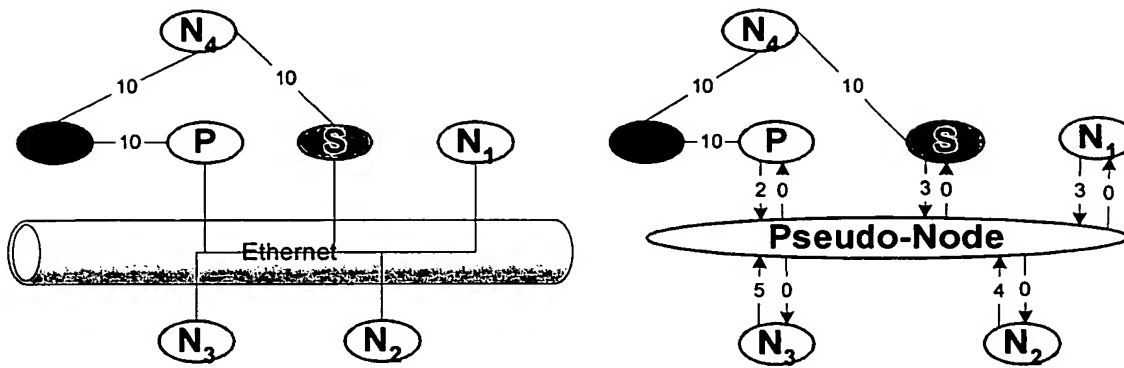


Fig. 17

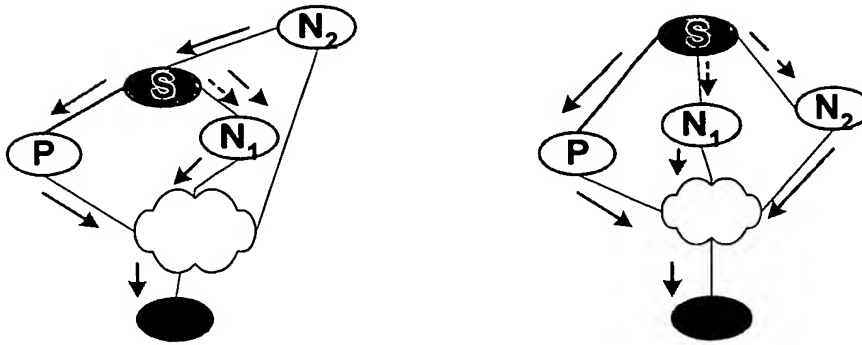


Fig. 18

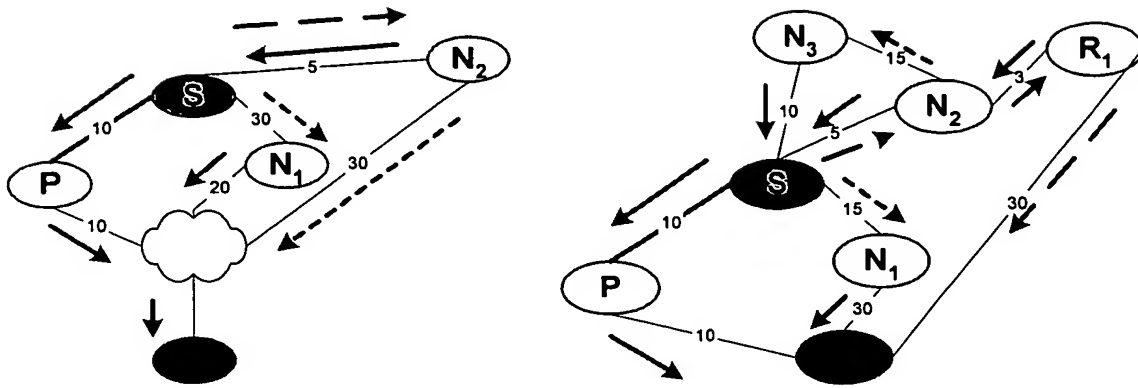


FIG. 19

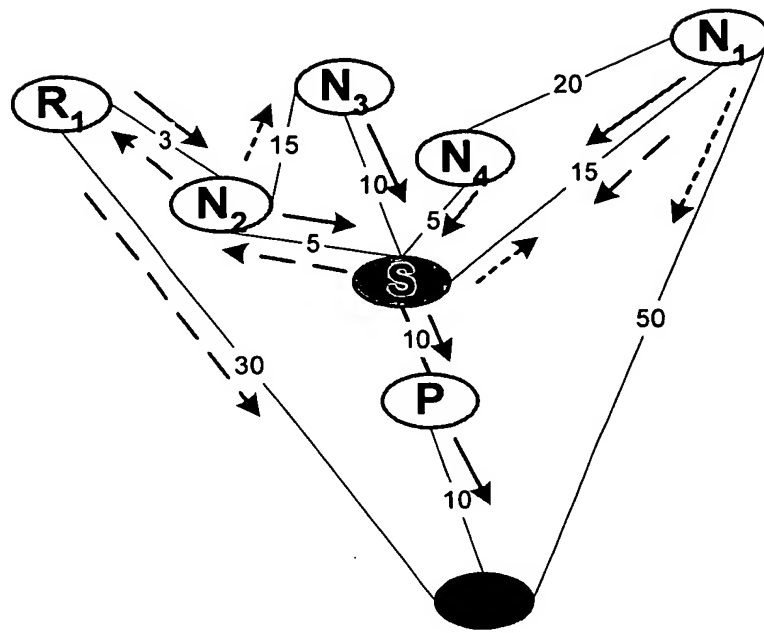





Fig. 20

Unaffected Router 
Outdated Router 
Updated Router 

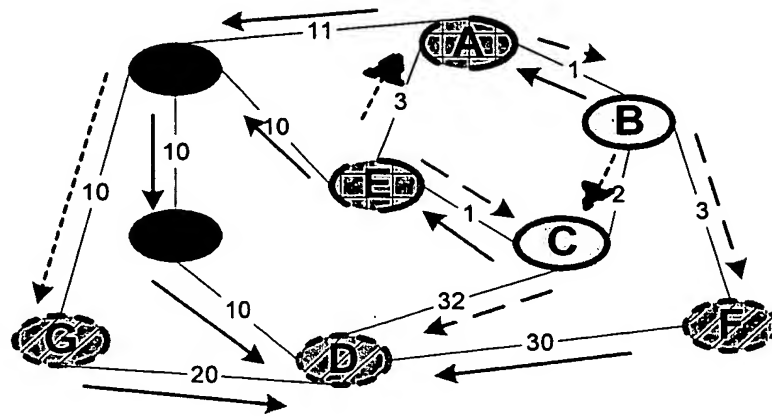


FIG. 21

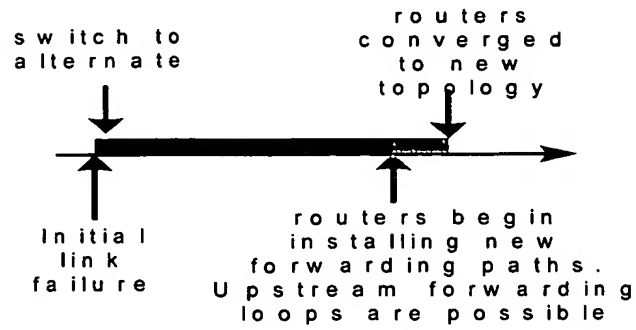


Fig. 22

Docket No.: 2390.2009-001
Title: Rapid Alternate Paths...
Inventors: Alia Karin Atlas, *et al.*

IP/LDP Local Protect Router Capability	Eligible Alternate Link Capability	Usable As Alternate?
0 or Not Present	0 or Not Present	NO
0 or Not Present	1	YES
1	0 or Not Present	No
1	1	YES

FIG. 23

Docket No.: 2390.2009-001
Title: Rapid Alternate Paths...
Inventors: Alia Karin Atlas, *et al.*

IP/LDP Local Protect Router Capability	Eligible U-Turn Recipient Link Capability	Usable As U-Turn Recipient?
0 or Not Present	0 or Not Present	NO
0 or Not Present	1	YES
1	0 or Not Present	No
1	1	YES

FIG. 24

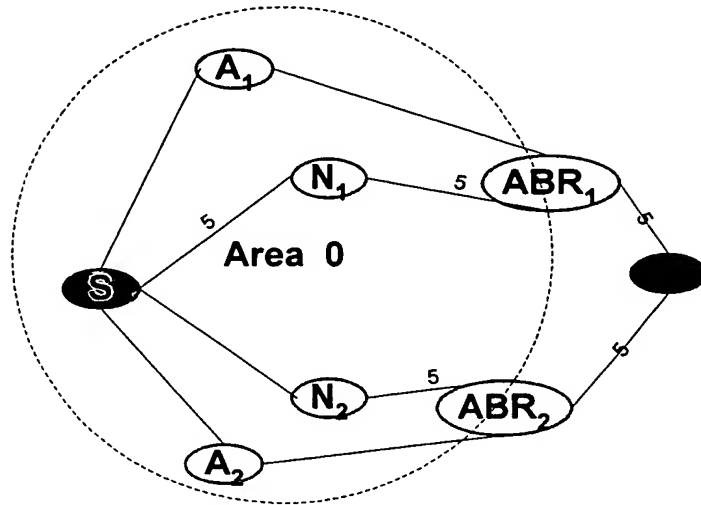


FIG. 25